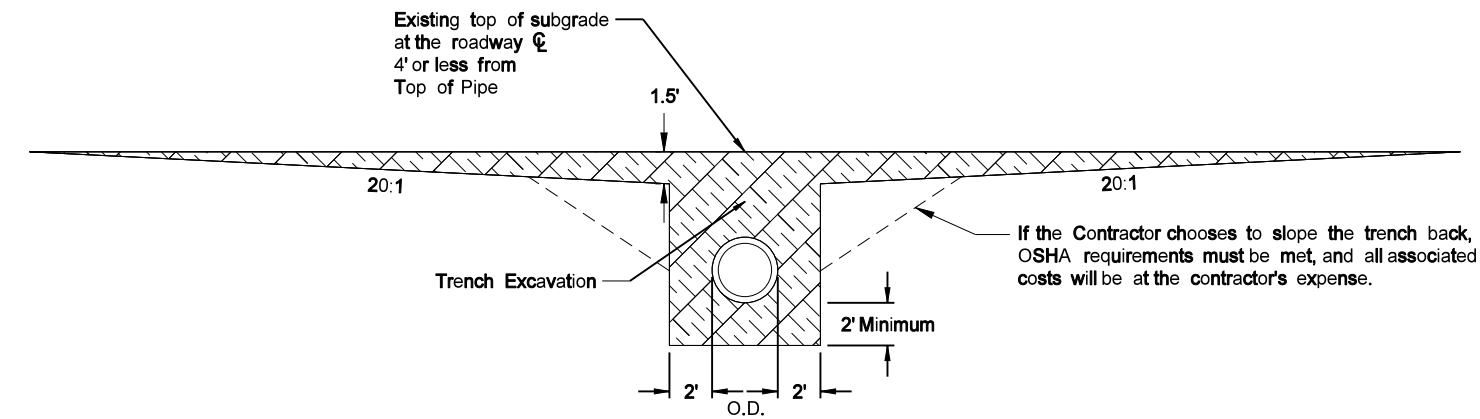
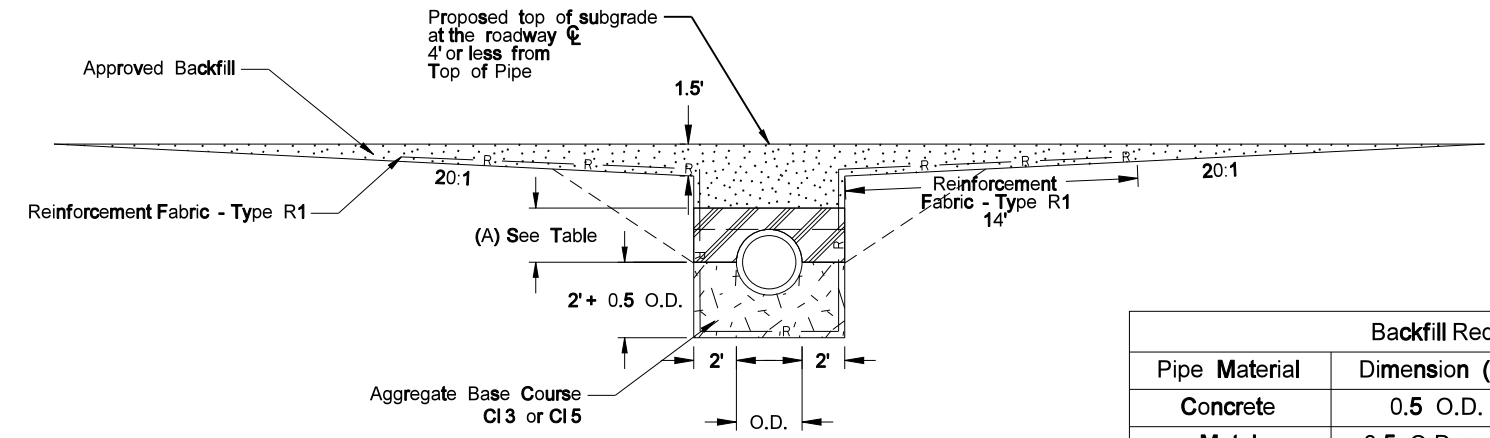


BACKFILL FOR STRUCTURAL PLATE PIPES
4 FEET OR LESS BELOW THE PROPOSED BASE

D-638-02

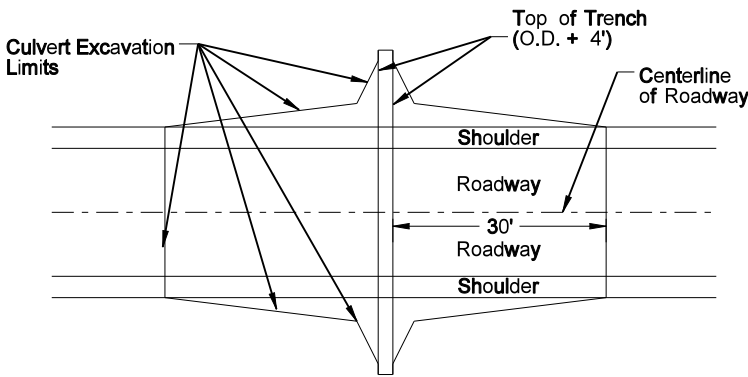


Removal Detail

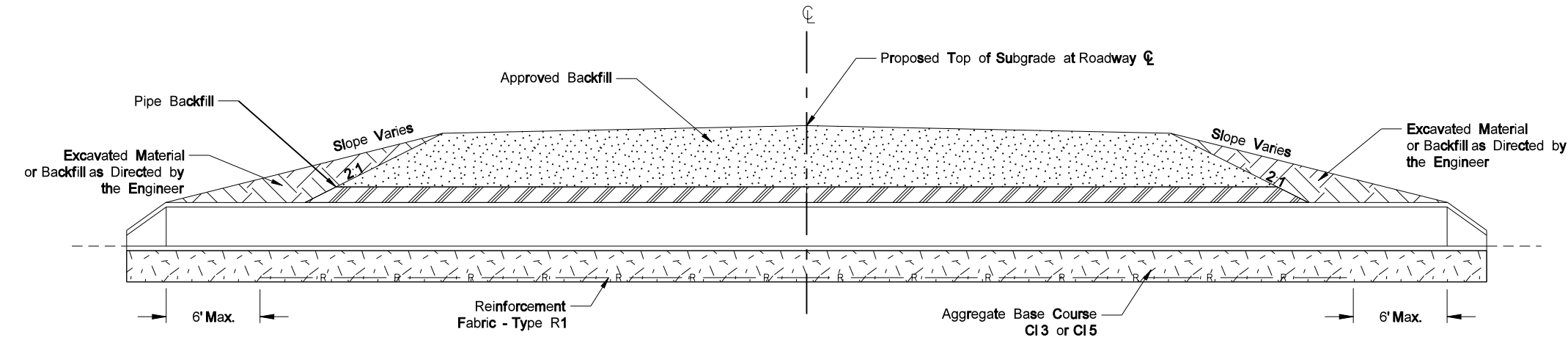


Backfill Detail

Backfill Requirements		
Pipe Material	Dimension (A)	Backfill
Concrete	0.5 O.D.	Approved Backfill (Note 2)
Metal	0.5 O.D. + 1'	CI3 or CI5



Plan View of Culvert (Not to Scale)



Cross Section View - Proposed Section

Included in Pipe Pay Item

- 1) Pipe
- 2) Trench excavation
- 3) Disposal of unsuitable excavated material and placement of suitable excavated material on inslope.
- 4) Aggregate Base Course CI3 or CI5
- 5) Approved Backfill

Pay Items

- 1) Pipe
- 2) Reinforcement Fabric - Type R1
- 3) Surfacing Removal

NOTES:

1. This drawing corresponds to new/replaced mainline and paved intersection roadway pipes only (including ramps). It does not include pipes in approaches.
2. Approved Backfill shall meet the requirements of AASHTO M 145 for A-1, A-2, and A-3 soils.
3. Compaction requirements for all materials associated with the trench installation shall meet 90% of AASHTO T-180. Maximum thickness of any one lift shall not exceed 6 inches.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-08-08	
REVISIONS	
DATE	CHANGE

This document was originally issued and sealed by Terrence R. Udland, Registration Number PE- 2674 , on 12/08/2008 and the original document is stored at the North Dakota Department of Transportation